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## AMENDMENTS TO THE CLAIMS:

Please cancel without prejudice or disclaimer of the subject matter therein Claims 1-14, 16, 17, 19, 31-40 and 43-55.

1-19. (Cancelled)

20. (Currently Amended-Thrice) A pharmomechanical device, comprising:

means to increase the surface area of a clot in a vascular structure such that said clot
can be dissolved by a lytic agent; and

a catheter having a corkscrew configuration throughout its length that is substantially incapable of damaging an endothelium of a vascular structure, said catheter rotating between 30 rpm and 600 rpm once it is inserted inside a patient, said catheter increasing the surface area of a clot in said vascular structure such that said clot can be dissolved by a lytic agent; and

means for providing mechanical motion to <u>said</u> a catheter throughout a length of a vessel for a prolonged period of time while said lytic agent is acting., <u>said means for providing mechanical motion comprising a corkscrew catheter configuration substantially incapable of damaging an endothelium of said vascular structure, said means for providing mechanical motion causing said catheter to rotate once it is inserted inside a patient.</u>

- 21. (Original) The device as set forth in claim 20, wherein said period is at least about 5 hours.
- 22. (Original) The device as set forth in claim 20, wherein said period is at least about 10 hours.

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- 23. (Original) The device as set forth in claim 20, wherein said period is at least about 24 hours.
- 24. (Previously Amended) The device as set forth in Claim 20, wherein said means for providing mechanical motion operates intermittently and over a prolonged period of time.
- 25. (Previously Amended) The device as set forth in Claim 24, wherein said means for providing mechanical motion provides for a time of inactivity at least as great as a time of activity of said device.
- 26. (Previously Amended) The device as set forth in Claim 20, wherein said means for providing mechanical motion generates vibrations effective to disrupt a clot, but does not promote hemolysis or cause damage to an endothelium.
- 27. (Previously Amended) The device as set forth in Claim 20, wherein said device extends for a substantial length of said vessel.
- 28. (Original) The device as set forth in Claim 20, further comprising an occluding element positioned so as to maintain desired concentration of a thrombolytic drug in a desired segment of a patient's blood vessels.
- 29. (Currently Amended) The device as set forth in Claim <u>2524</u>, wherein <u>ather</u> ratio of an inactivation time to an activation time is greater than 1.
- 30. (Currently Amended) The device as set forth in Claim <u>2524</u>, wherein <u>ather</u> ratio of an inactivation time to an activation time is greater than 50.

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31-40. (Cancelled)

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- 41. (Currently Amended Twice) The device as set forth in Claim 20, <u>further</u> comprising a pump that is programmable to deliver a lytic agent, and wherein an intermittent mechanical motion of the catheter is caused by the delivery of <u>said</u> a lytic agent in pulses, said pump being programmable to deliver the lytic agent in pulses.
- 42. (Previously Amended) The device as set forth in Claim 41, wherein said pump is programmed to deliver said lytic agent at a desired frequency or duration.

43-55. (Cancelled)

56. (New) A pharmomechanical device, comprising:

a catheter having a length and having a corkscrew configuration throughout a substantial portion of said length, said catheter being substantially incapable of damaging an endothelium of a vascular structure, said catheter rotating between 30 rpm and 600 rpm once it is inserted inside a patient to increase the surface area of a clot in said vascular structure; and

a means for rotating said catheter.

- 57. (New) The pharmomechanical device of Claim 56, wherein said catheter rotates at less than about 300 rpm.
- 58. (New) The pharmomechanical device of Claim 56, wherein said catheter rotates at less than about 55 rpm.